

DIANA ECO

Installation and operating instructions

Wood-burning room heater | Updated 21 September 2026

Important. Read these instructions before installation or use. Installation must comply with local building, fire-safety and chimney requirements. Keep these instructions with the appliance.

Document basis. These instructions combine the operating and maintenance information in the earlier TIM SISTEM factory manual with the current performance values in Declaration of Performance No. 0010/09.12.25, signed 3 June 2026. The current declared values take precedence over technical figures in older manuals.

1 Intended use

DIANA ECO is a freestanding solid-fuel room heater designed for intermittent heating with dry wood logs. Operate the appliance only with the firebox door closed, except during ignition, refuelling and cleaning.

- Use only dry, untreated wood logs. Do not burn waste, plastics, painted or impregnated wood, coal or liquid fuels.
- Do not modify the appliance. Use only manufacturer-approved replacement parts.
- The appliance and flue system become hot during operation. Keep children, pets and combustible objects at a safe distance.

2 Declared technical data

Parameter	Declared value
Nominal heat output	5.1 kW
Dimensions W x D x H	390 x 435 x 785 mm
Firebox dimensions W x D x H	200 x 250 x 360 mm
Net weight	54 kg
Efficiency at nominal output	83.1%
Seasonal space-heating efficiency	73.1%
Energy Efficiency Index and class	111 / A+
Fuel	Dry wood logs
Fuel consumption at nominal output	1.5 kg/h
Flue outlet	Ø120 mm, top
Minimum flue draught	12 Pa
Flue-gas temperature	323 °C

Flue-gas mass flow	3.6 g/s
Chimney fire-safety class	T400 G
Operating mode	Intermittent

Emissions at nominal output at 13% O₂: CO 893 mg/m³; dust 30 mg/m³; NO_x 127 mg/m³; OGC 61 mg/m³.

3 Installation and safety distances

Installation must be carried out by a competent installer. The supporting surface must be level, stable and capable of carrying the appliance. The flue connection and chimney must be sound, gas-tight and suitable for the declared temperature and chimney fire-safety class.

Parameter	Declared value
Rear	500 mm
Side	800 mm
Front	1500 mm
Lateral radiation zone	1500 mm
Ceiling above	>750 mm
Below appliance	0 mm
Floor in front of firebox	1500 mm

- Where local rules or the installation design require a larger distance or floor protector, use the larger value.
- Protect combustible flooring with a non-combustible hearth. The protection must extend at least as far as required by the declared floor-in-front distance.
- Do not store fuel, paper, textiles or other combustible materials in the safety zone.
- Connect to a suitable chimney using a Ø120 mm flue pipe. Do not reduce the outlet diameter.
- Ensure sufficient combustion-air supply. Mechanical extraction systems must not create unsafe negative pressure in the room.

4 Before first use

1. Check that the appliance, firebox lining, grate, ash pan and flue path are correctly assembled and undamaged.
2. Confirm that the chimney connection is secure and that all required clearances and floor protection are provided.
3. Remove packaging and loose items from the appliance.
4. During the first firings, use small fuel loads and ventilate the room. Protective coatings may emit odour or light smoke while curing.
5. Do not touch painted surfaces unnecessarily while the coating is curing.

5 Lighting and operation

1. Empty excess ash and make sure the grate and flue path are clear.
2. Open the combustion-air control fully.
3. Place dry kindling and small wood logs on the grate. Use a suitable firelighter; never use petrol, alcohol or another flammable liquid.
4. Ignite the fuel and close the firebox door once stable flames are established.
5. After the chimney has warmed and combustion is stable, adjust the air control gradually. Do not operate the appliance with a smouldering fire.
6. For refuelling, open the door slightly first, wait for pressure to equalise, then open it slowly. Add a moderate quantity of fuel and close the door.
7. Do not overload the firebox or operate the appliance continuously above its declared nominal output.

6 Safe operation

- Use a protective glove when operating the door handle and controls.
- Keep the firebox door and ash-pan area closed during operation.
- Never leave an open firebox unattended.
- If smoke enters the room, close the air control, ventilate the room, extinguish the fire safely and have the chimney and installation checked before further use.
- In the event of a chimney fire, close the combustion-air supply, call the emergency services and do not use the appliance again until the system has been inspected.

7 Cleaning and maintenance

- Allow the appliance to cool completely before cleaning or maintenance.
- Remove ash regularly and place it in a non-combustible container with a tight-fitting lid. Embers can remain hot for a long time.
- Clean the grate, firebox, flue passages and flue pipe regularly. Do not allow ash to obstruct combustion-air flow.
- Clean the glass only when cold, using a suitable non-abrasive product.
- Inspect door seals, firebox lining and moving parts. Replace damaged components with approved parts.
- Have the chimney inspected and swept at intervals required by local regulations and according to use.

8 Troubleshooting

Problem	Corrective action
Smoke enters the room	Check chimney draught, flue blockage, room air supply, door opening technique and seal condition.
Fire is difficult to light	Use dry kindling; open the air control; warm the chimney; check that the grate and flue path are clear.
Weak heat output	Use dry fuel; avoid oversized logs; check draught and air supply; clean heat-transfer and flue surfaces.

Fire burns too rapidly	Reduce air only after stable combustion; check door and seals; have excessive chimney draught corrected.
Glass becomes sooty	Use dry wood, maintain active flames, avoid prolonged smouldering and check the secondary-air path.

9 Warranty and service

Keep the purchase document and appliance identification information. Warranty service does not cover damage caused by incorrect installation, unsuitable fuel, overfiring, unauthorised modification, inadequate chimney conditions or failure to maintain the appliance. Contact the seller or an authorised service provider for spare parts and repairs.

10 Document references

- TIM SISTEM DIANA ECO factory installation and operating manual, EN 13240 (operating and maintenance information).
- DIANA ECO Declaration of Performance No. 0010/09.12.25, signed 3 June 2026.
- Applicable declared standards: EN 16510-1:2022 and EN 16510-2-1:2023.

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